

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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| <b>Applicant(s):</b> | Juho Jumppanen, et al. | <b>Examiner:</b> | Unassigned        |
| <b>Serial No:</b>    | 10/670,094             | <b>Art Unit:</b> | Unassigned        |
| <b>Filed:</b>        | September 24, 2003     | <b>Docket:</b>   | 17048             |
| <b>For:</b>          | SEPARATION OF SUGARS   | <b>Dated:</b>    | December 16, 2003 |

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

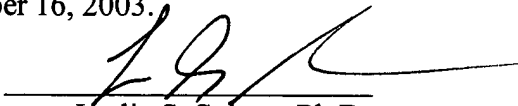
In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the seventeen (17) references, which are listed on the attached Form PTO-1449, be made of record in the above-identified case.

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on December 16, 2003.

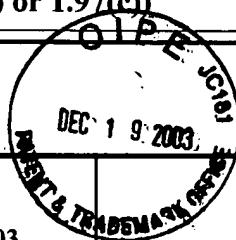
Dated: December 16, 2003

  
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Leslie S. Szivos, Ph.D.

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
17048

In Re Application Of: Juho Jumppanen, et al.



Serial No.  
10/670,094

Filing Date  
September 24, 2003

Examiner  
Unassigned

Group Art Unit  
Unassigned

Title: SEPARATION OF SUGARS

Address to:  
Commissioner for Patents  
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Alexandria, VA 22313-1450

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(e))

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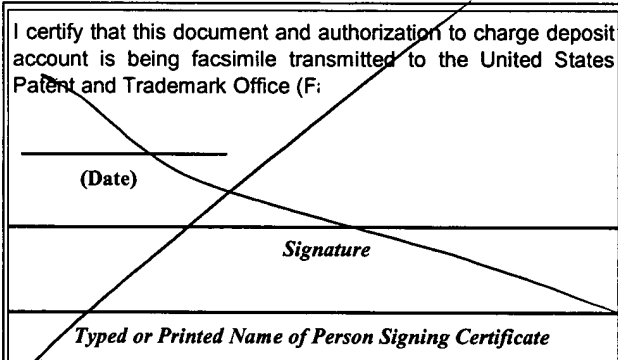
SEPARATION OF SUGARS

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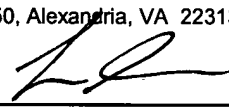
(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **19-1013/SSMP** as described below.
- ☐ Charge the amount of \_\_\_\_\_
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

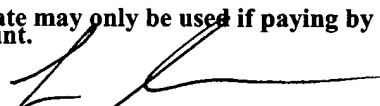
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| Leslie S. Szivos, Ph.D.  |  |
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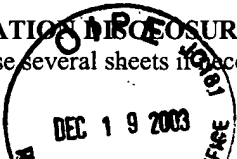
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Signature

Dated: December 16, 2003

Leslie S. Szivos, Ph.D.  
Registration No.: 39,394  
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Garden City, New York 11530  
(516) 742-4343  
LSS/sf:ej

CC:

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|--|-----------------------------------|----------------------------------|
| <p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b><br/>(Use several sheets if necessary)</p> <div style="text-align: center;">  </div> | Docket Number (Optional)<br>17048 | Application Number<br>10/670,094 |
|  | Applicant(s)<br>Juho Jumppanen    |                                  |
|  | Filing Date<br>September 24, 2003 | Group Art Unit<br>unassigned     |

**U.S. PATENT DOCUMENTS**

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE    | NAME                 | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----|-----------------|---------|----------------------|-------|----------|-------------------------------|
|                      |     | 3,240,775       | 3/15/66 | Richard G. Schweiger |       |          |                               |
|                      |     | 4,772,334       | 9/20/88 | Hatanaka, et al.     |       |          |                               |
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**FOREIGN PATENT DOCUMENTS**

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|  |     |                 |         |         |       |          | YES         | NO |
|  |     | 63027496        | 2/5/88  | JAPAN   |       |          | ABSTRACT    |    |
|  |     | 102535          | 3/14/84 | EPO     |       |          | ABSTRACT    |    |
|  |     | WO 02/27039     | 4/4/02  | PCT     |       |          | X           |    |
|  |     |                 |         |         |       |          |             |    |
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |  |
|--|--|--|
|  |  | Merck Index, Twelfth Edition, 1996, p. 725;  |
|  |  | Petra T. Vanhooren and Erick J. Vandamme, "Review: L-fucose: occurrence physiological role, chemical, enzymatic and microbial synthesis", <u>J. Chem. Technol. Biotechnol.</u> 74:479-497 (1999), p. 483-484 and 495); |

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**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicants are submitting copies of the cited references.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,

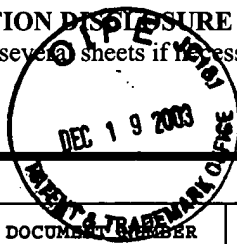
A handwritten signature in black ink, appearing to read 'L. Szivos', with a long horizontal flourish extending to the right.

Leslie S. Szivos, Ph.D.  
Registration No. 39,394

Scully, Scott, Murphy & Presser  
400 Garden City Plaza  
Garden City, New York 11530  
(516) 742-4343

LSS/sf  
Enclosures     PTO 1449  
Seventeen (17) references

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)



Docket Number (Optional)  
17048

Application Number  
10/670,094

Applicant(s)

Juho Jumppanen

Filing Date

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Group Art Unit

unassigned

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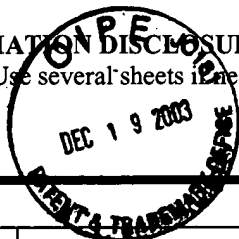
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|  | Rombouts, F.M., et al., "Feruloylated pectic substances from sugar-beet pulp", <u>Carbohydrate Research</u> , pp. 154, 177-187, (1986);   |
|  | Derevitskaya, V.A. et al., "Use of anion-exchange chromatography for the separation of complex mixtures of oligosaccharides", <u>Dokl. Akad. Nauk. SSSR</u> , (1975), 223 (5) 1137-9, 1 page; |

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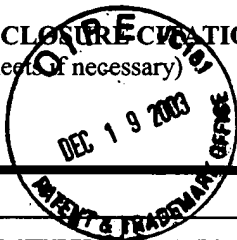
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|  | Simatupang, M.H., "Ion-exchange chromatography of some neutral monosaccharides and uronic acids", <u>Journal of Chromatography</u> , 178(2), pp. 588-91 (1979).             |
|  | Balaghova, D. et al., "Changes of the saccharide portion of maple wood in the course of prehydrolysis", <u>Vybrane Procesy Chem. Spracovani Dreva</u> , pp. 187-192 (1996). |

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |   |
|--|--|---|
|  |  | Defaye, J., et al., "An efficient synthesis of L-fucose and L-(4- <sup>2</sup> H) fucose", <u>Carbohydrate Research</u> , 126, 165-169 (1984).      |
|  |  | Gesson, J.-P., et al. "A Short Synthesis of L-Fucose and Analogs from D-Mannose", <u>Tetrahedon Letters</u> , Vo. 33, No. 25, pp. 3637-3640 (1992). |

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